CRITICAL ITEMS LIST

ASSY NOMENCLATURE: AUTOMATIC ACTUATION DEVICE

SYSTEM: CREW ESCAPE SYSTEM

REVISION:

ASSY P/N: SK 1102440187

FMEA	£81244	NAME,QTY	FAILURE MODE AND CAUSE	FAILURE EFFECT ON	SUBSYSTEM: PERSONAL PARACHUTE ASSY. PAGE 13 OF 79 RATIONALE FOR ACCEPTANCE
REF REY	CRIT'Y	DRAWING REF DESIGNATIO			
1.6 2	2/1R	AUTOMATIC ACTUATION DEVICE, (1) SK1102440187	1.6.2 Mode: Aneroid fails to function or functions at lower than preset altitude Cause: defective material	Drogue release mechanism fails to release or releases the drogue and main chute late if the "D" ring emergency backup fails	a. The aneroid is in Navy fleet use. b. A leaking aneroid functions higher than its preset altitude. c. The arming pin is pulled out by the drogue d. The aneroid is sealed 2. TEST OR ANALYSIS TO DETECT FAILURE MODE a. Acceptance Test. (1) Functional test, altitude firing at 14,000 ← 1,000 feet. b Certification Test (1) Four air drop dummy tests from 10,000 feet (2) Four air drop dummy tests from 25,000 feet. (3) Four air drop live jumps from 10,000 feet. (4) Four air drop five jumps from 25,000 feet. (5) Ten firings at JSC TTA facility c. Turnaround Test (In accordance with PIA 23028) The PPA will be unpacked, inspected, and repacked prior to each flight

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SUBSYSTEM: PERSONAL PARACHUTE ASSY.

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FA	FMEA REF REV	NAME,QTY & DRAWING REF DESIGNATION	CO12 ()	FAILURE MODE	FARURE EFFECT ON	
REF	REV		CRIT'Y	AND CAUSE	END ITEM	RATIONALE FOR ACCEPTANCE
1.6.2		AUTOMATIC ACTUATION DEVICE, (1) SK1102440187	2/1R	1.6.2 Mode: Aneroid fails to function or functions at fower than preset altitude Cause: • defective material	Drogue release mechanism fails to release or releases the drogue and main chute fate if the "D" ring emergency backup fails	a. The AAD is Government source inspected. b. Visual inspection of AAD for defects c. Visual inspection of cartridge for defects. d. Verify firing pin indents cartridge during functional altitude test at 14,000 ± 1,000 feet e. Verify cartridge is installed prior to packing. f. Verify arming pin is installed prior to packing. g. Verify acceptance data package Turnaround Inspection. (In accordance with PIA 23028) a. The PPA will be unpacked, inspected, and repacked prior to each flight. b. Visual inspection of AAD for defects c. Visual inspection of cartridge for defects d. Verify cartridge is installed prior to packing. e. Verify arming pin is installed prior to packing. e. Verify arming pin is installed prior to packing. FAILURE HISTORY None—The AAD is in fleet use by the Navy

PREPARED BY: R. L. ALLISON, M. HERR

SUPERSEDING DATE: 10'2"00

ADDROWED BY: J. O. SCHLOSSER

DATE 817189

CRITICAL ITEMS LIST

ASSY NOMENCLATURE: AUTOMATIC ACTUATION DEVICE

SYSTEM: CREW ESCAPE SYSTEM

REVISION:

ASSY P/N: SK1102440187

	 			ASSYPIN: SKI102	SUBSYSTEM: PERSONAL PARACHUTE ASSY. PAGE 15 OF 79
FMEA	NAME,QTY	CRIT'Y	FAILURE MODE AND	FAILURE EFFECT ON	SUBSTSTEM: PERSONAL PARACHUTE ASSY. PAGE 15 OF 75
REF REV	4 PROTEING [CAUSE	ENDITEM	RATIONALE FOR ACCEPTANCE
1 6.2	AUTOMATIC ACTUATION DEVICE, (1) SK1102440187	M Ar fur fur for pro	neroid fails to inction or inctions at inctions at wer than reset altitude	Drogue release mechanism fails to release or releases the drogue and main chute late if the "D" ring emergency backup fails	a. Operational Effect of Failure - Possible loss of life if manual backup fails. b. Crew Action - Pull manual drogue release (red apple). c. Crew Training - Crew is trained to pull manual backup (red apple) if necessary. d. Mission Constraints - None. Mission would be terminated prior to use of this equipment e. In-Flight Checkout - None